

Name: _____

p1029: Box multiplication of linear binomials (v17)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(3x + 2)$ and $(7x + 5)$.

*	3x	2	
7x	$21x^2$	14x	
5	15x	10	

ANSWER: $21x^2 + 29x + 10$

Question 2

Use the box method to multiply $(8x - 9)$ and $(-6x + 3)$.

*	8x	-9
-6x	$-48x^2$	$54x$
3	$24x$	-27

ANSWER: $-48x^2 + 78x - 27$

Question 3

Use the box method to multiply $(-2x + 3)$ and $(-7x + 5)$.

*	-2x	3
-7x	$14x^2$	$-21x$
5	$-10x$	15

ANSWER: $14x^2 - 31x + 15$